

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-16 (canceled).

1 Claim 17 (previously presented): Method of producing a
2 pressurizable structure, comprising providing a gas- or
3 fluidtight body, wherein the radius of the body varies with
4 respect to a rotational-symmetrical axis of the body, such
5 that said body comprises a number of concave surface
6 sections spaced apart from the axial ends, each having a
7 local minimum radius, and a number of convex surface
8 sections spaced apart from the axial ends, each having a
9 local maximum radius, further comprising overwinding the
10 body with a fibre filament, characterized in that the method
11 further comprises overwinding at least one concave surface
12 section continuously as an isotensoide.

1 Claim 18 (previously presented): Method according to
2 claim 17, wherein overwinding the body comprises spiralling
3 or braiding the body with a number of fibre filaments.

1 Claim 19 (previously presented): Production apparatus for
2 producing a pressurizable structure, comprising a support
3 element for supporting a gas- or fluidtight body, wherein
4 the radius of the body varies with respect to a
5 rotational-symmetrical axis of the body, such that said body
6 comprises a number of concave surface sections spaced apart

7 from the axial ends, each having a local minimum radius, and
8 a number of convex surface sections spaced apart from the
9 axial ends, each having a local maximum radius, further
10 comprising a ring surrounding the body, wherein the
11 rotational- symmetric axis of the ring substantially
12 coincides with the rotational-symmetrical axis of the body
13 and wherein the ring is movable rotational and/or
14 translational with respect to its axis, the ring being
15 provided with fibre filament guiding elements, characterized
16 in that the production apparatus is arranged for overwinding
17 at least one concave surface section continuously as an
18 isotensoide.

1 Claim 20 (previously presented): Production apparatus
2 according to claim 19, being arranged to exert a torsion on
3 a fibre filament with respect to its longitudinal
4 centre-line overwinding the at least one concave surface
5 section.

1 Claim 21 (previously presented): Production apparatus
2 according to claim 19, being arranged to twist a fibre
3 filament overwinding the at least one concave surface
4 section.

1 Claim 22 (previously presented): Production apparatus
2 according to claim 20, being arranged to twist a fibre
3 filament overwinding the at least one concave surface
4 section.

1 Claim 23 (new): Fibre-reinforced pressurizable structure
2 comprising a gas- or fluid-tight body overwound as an
3 isotensoide with a number of fibre filaments, whereby the

4 radius of the body varies with respect to a
5 rotation-symmetrical axis of the structure, such that said
6 body comprises a number of concave surface sections spaced
7 apart from the axial ends, each having a local minimum
8 radius, and a number of convex surface sections spaced apart
9 from the axial ends, each having a local maximum radius,
10 characterized in that at least one concave surface section
11 is continuously overwound with a fibre as an isotensoide.

1 Claim 24 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the fibre
3 windings in the at least one concave surface section
4 comprises in a non-pressurized state of the structure a
5 multiple number of substantially straight fibre filaments
6 forming a hyperboloid.

1 Claim 25 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the fluid-tight
3 body is quasi-geodesically overwound in a continuous
4 fashion.

1 Claim 26 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the
3 longitudinal orientation of the fibre along a finite length
4 thereof is orientated substantially perpendicular with
5 respect to the rotation symmetrical axis of the structure.

1 Claim 27 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the fibre in a
3 pressurized state undergoes torsion with respect to its
4 longitudinal centre-line, so that substantially one side of

5 the curved fibre remains in contact with the body in the at
6 least one concave surface section.

1 Claim 28 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that in a
3 pressurized state there is reversal of the side of the
4 curved fibre which is in contact with the body in the at
5 least one concave surface section.

1 Claim 29 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the body is
3 flexible, i.e., non-rigid, and that the fibres are supported
4 by a matrix material.

1 Claim 30 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the axial
3 length of at least one axial section of the structure is
4 variable with respect to the longitudinal axis of the
5 pressurizable structure.

1 Claim 31 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that at least one
3 axial section of the structure is pivotable with respect to
4 the longitudinal axis of the pressurizable structure.

1 Claim 32 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that at least one
3 axial section of the structure is pivotable with respect to
4 an axis, which axis is orthogonal with respect to the
5 longitudinal axis of the pressurizable structure.

1 Claim 33 (new): Fibre-reinforced pressurizable structure
2 according to claim 30, characterized in that at least one
3 axial section of the structure comprises a combination of at
4 least two of the technical elements of said claims, e.g. in
5 that at least one axial section of the structure is
6 pivotable with respect to the longitudinal axis of the
7 pressurizable structure and that the axial length of this
8 axial section of the structure is variable with respect to
9 the longitudinal axis of the pressurizable structure as in
10 the case in which the pressurizable structure comprises a
11 substantially hyperboloid shape.

1 Claim 34 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the
3 pressurizable structure comprises a one- to three
4 dimensional arrangement of a number of pressurizable fuel
5 tanks or pipelines.

1 Claim 35 (new): Fibre-reinforced pressurizable structure
2 according to claim 24, characterized in that the
3 pressurizable structure comprises a spring means for a
4 load-displacement function, preferably an adjustable
5 load-displacement function.

1 Claim 36 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the
3 pressurizable structure comprises means for an actuating
4 function, such as for elevators, excavators and industrial
5 robots.

1 Claim 37 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the
3 pressurizable structure comprises means for a shoring or
4 strutting function, such as construction beams.

1 Claim 38 (new): Fibre-reinforced pressurizable structure
2 according to claim 37, characterized in that the means for a
3 shoring or strutting function, such as construction beams,
4 are adaptable to the Eigen-frequencies of the pressurizable
5 structure.